



User Instructions



Palm Copilot

Introduction

Congratulations and thank you for purchasing the Elation Palm Copilot. The Palm Copilot is a simple 8 channels DMX controller and may be used to link with LC-8P series relay pack for control. It is available in DMX output and Analog output mode.



Features

- USITT DMX512(1990 protocol) control
- Be available in DMX output and ANALOG output(Selectable)
- Power by external adaptor or battery
- Output modes was programmed by 10 way DIP-Switch
- Touch button
- Power failure memories

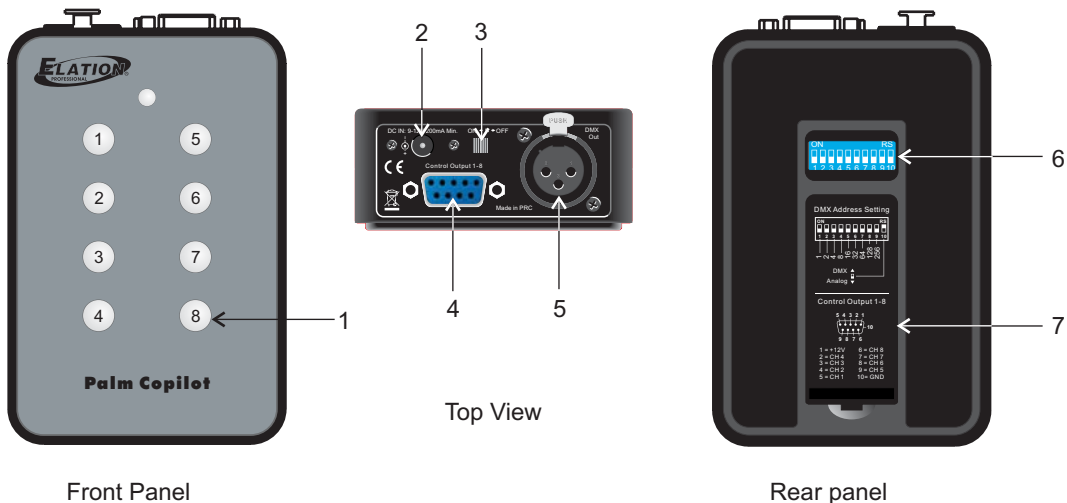
Specifications

Power Input.....	DC9~12V
Channel Output	DMX output and Analog output
Connects	3-pin XLR connector & DB-9pin
Dimensions.....	120x80x35mm
Total Weight.....	240g
Accessories.....	AC/DC Adaptor UL/VDE(included)Cradle(Sold Separately)



Cradle(Sold Separately)

Function Instructions



- 1.Touch button (Indicator) 1~8
- 2.DC socket: Connects power input with DC 9~12V,200mA Min
- 3.Power Switch: Used to power on/off the unit
- 4.DB-9: Connects relay pack to control output 1~8
- 5.3-pin XLR female connector: Connects lighting fixtures and output DMX signal
- 6.Dip-switch 1~10: Programs output mode
- 7.Battery cover

Operation Guide

The user can flip the dip-switch 10 to "on" or "off" position to select the DMX output or Analog output.

1. DMX output mode

Flip the dip-switch 10 to "on" position, the Palm Copilot goes into DMX output mode.



In this mode, the DIP-switch 1~9 were used to set the initializing DMX address, the 8 buttons in interface of the unit are corresponding to output the 8 channels DMX .

When the DIP-switch 1~9 is flipped to "on", all the back light of the 8 buttons light up, the corresponding channel outputs the DMX with value of 255.

When the DIP-switch 1~9 is flipped to "off", all the back light of the 8 buttons black out, the corresponding channel outputs the DMX with value of 0.

Setting DMX Addressing

DMX is short for Digital Multiplex. This is a universal binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.

- Dip Switch 1 address equals 1
- Dip Switch 2 address equals 2
- Dip Switch 3 address equals 4
- Dip Switch 4 address equals 8
- Dip Switch 5 address equals 16
- Dip Switch 6 address equals 32
- Dip Switch 7 address equals 64
- Dip Switch 8 address equals 128
- Dip Switch 9 address equals 256

DMX ADDRESS (SLAVE) (Dip Switch 10 = on)			
START CH#	SWITCHES ON	START CH#	SWITCHES ON
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	:	:
7	1,2,3	:	:
8	4	:	:
9	1,4	:	:
10	2,4	511	1,2,3,4,5,6,7,8,9

A DMX value(address) is set by combining the different dipswitches that will add up to the value you wish to achieve, for example:

<p>Setting DMX address for 21. Flip switches 1,3,&5 to the "ON" position</p> $\begin{array}{r} 1=1 \\ 3=4 \\ \hline \text{Dipswitches\#} \quad 5=16 \\ \hline \text{Value} \\ \hline =21 \end{array}$	<p>Setting DMX address for 201. Flip switches 1,4,7,& 8 to the "ON" position</p> $\begin{array}{r} 1=1 \\ 4=8 \\ 7=64 \\ 8=128 \\ \hline \text{Dipswitches\#} \\ \hline \text{Value} \\ \hline =201 \end{array}$
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While a DMX initializing address is set as 21, on the Palm Copilot interface, the button 1 is corresponding with 21, the button 2 is corresponding with 22, the rest may be deduced like this. Meanwhile, all the 8 buttons back light are lit and the device output the DMX value with 255, the user may press the touch button to select the desired channel to send DMX signal or not.

2. Analog output mode

Flip the dip-switch 10 to "off" position, the Palm Copilot goes into Analog output mode. At this time, the Palm Copilot enables to connect the Relay Pack such as LC-8P series which from Elation.



In this mode, the 8 buttons in interface of the unit are corresponding to output the 8 channels contact capacity .

When tap the button 1~8 and make it "on", the back light of the corresponding button lights up , the output of the corresponding relay pack channel is "ON".

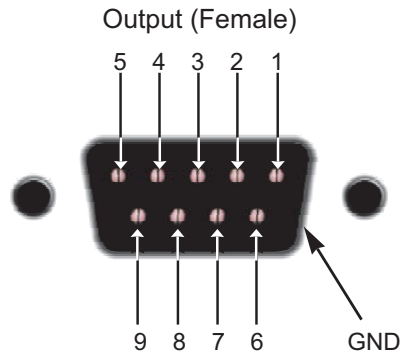
When tap the button 1~8 and make it "off", the back light of the corresponding button blacks out , the output of the corresponding relay pack channel is "OFF".

Note

1) Synchronously hold down the buttons 1, 6 and 8, may swap between the key tone on and the key tone off.

2) While powered by the battery, the indicator of the buttons will fade out in 5 seconds without operation for saving power. While around 10% of the power capacity be left, the indicator of the power source will repeatedly flash to prompt that the unit is in the lower power capacity.

DB-9PIN Configuration



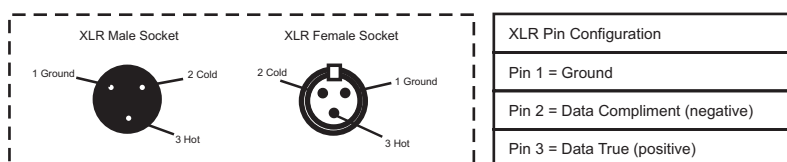
1---- +DC 12 V	6---- Channel 8
2---- Channel 4	7---- Channel 7
3---- Channel 3	8---- Channel 6
4---- Channel 2	9---- Channel 5
5---- Channel 1	Housing---- DC 12 V, Grounded

DMX Cable Requirements

The Palm Copilot requires a standard 3-pin XLR connector for data output. Connect the Palm Copilot and your fixtures together using standard 3 pin DMX cables.

If you are constructing your own data cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a 3-pin male and female XLR connector on either end of the cable. Also remember that DMX lines must be daisy chained and can't be split.

3-Pin XLR connector Configuration



***Note:**

Be sure to above figures when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.